

PART 417—SOAP AND DETERGENT MANUFACTURING POINT SOURCE CATEGORY

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AUTHORITY: Secs. 301, 304 (b) and (c), 306 (b) and (c), and 307(c) of the Federal Water Pollution Control Act as amended, (the Act); 33 U.S.C. 1251, 1311, 1314 (b) and (c), 1316 (b) and (c) and 1317(c), 86 Stat. 816 et seq.; Pub. L. 92-500.

SOURCE: 39 FR 13372, Apr. 12, 1974, unless otherwise noted.

Subpart A—Soap Manufacturing by Batch Kettle Subcategory

§ 417.10 Applicability; description of the soap manufacturing by batch kettle subcategory.

The provisions of this subpart are applicable to discharges resulting from the operations in which neat soap is produced through saponification of animal and vegetable fats and oils by boiling in kettles.

§ 417.11 Specialized definitions.

For the purpose of this subpart:

- (a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.
- (b) The term *anhydrous product* shall mean the theoretical product that would result if all water were removed from the actual product.
- (c) The term *neat soap* shall mean the solution of completely saponified and purified soap containing about 20–30 percent water which is ready for final formulation into a finished product.

§ 417.12 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in §§ 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction at-

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tainable by the application of the best practicable control technology currently available (BPT):

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD5 | 1.80 | 0.60 |
| COD | 4.50 | 1.50 |
| TSS | 1.20 | .40 |
| Oil and grease | 0.30 | .10 |
| pH | (¹)(| ¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD5 | 1.80 | 0.60 |
| COD | 4.50 | 1.50 |
| TSS | 1.20 | .40 |
| Oil and grease | 0.30 | .10 |
| pH | (¹)(| ¹) |

¹ Within the range 6.0 to 9.0.

[39 FR 13372, Apr. 12, 1974, as amended at 60 FR 33952, June 29, 1995]

§ 417.13 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a point source subject to the provisions of this subpart after application of the best available technology economically achievable:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD5 | 0.80 | 0.40 |
| COD | 2.10 | 1.05 |
| TSS | 0.80 | .40 |
| Oil and grease | 0.10 | .05 |
| pH | (¹)(| ¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD5 | 0.80 | 0.40 |

| Effluent characteristic | Effluent limitations | |
|-------------------------|-----------------------|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| COD | 2.10 | 1.05 |
| TSS | 0.80 | .40 |
| Oil and grease | 0.10 | .05 |
| pH | (¹)(| ¹) |

¹ Within the range 6.0 to 9.0.

§ 417.14 Pretreatment standards for existing sources.

Any existing source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403. In addition, the following pretreatment standard establishes the quantity or quality of pollutants or pollutant properties controlled by this section which may be discharged to a publicly owned treatment works by a point source subject to the provisions of this subpart.

| Pollutant or pollutant property | Pretreatment standard |
|---------------------------------|-----------------------|
| pH | No limitation. |
| BOD5 | Do. |
| TSS | Do. |
| Oil and grease | Do. |
| COD | Do. |

[40 FR 6441, Feb. 11, 1975, as amended at 60 FR 33952, June 29, 1995]

§ 417.15 Standards of performance for new sources.

The following standards of performance establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a new source subject to the provisions of this subpart:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD5 | 0.80 | 0.40 |
| COD | 2.10 | 1.05 |
| TSS | 0.80 | .40 |
| Oil and grease | 0.10 | .05 |
| pH | (¹)(| ¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD5 | 0.80 | 0.40 |

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| Effluent characteristic | Effluent limitations | |
|-------------------------|-----------------------|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| COD | 2.10 | 1.05 |
| TSS | 0.40 | .40 |
| Oil and grease | 0.10 | .05 |
| pH | (¹)(| ¹) |

¹ Within the range 6.0 to 9.0.

§ 417.16 Pretreatment standards for new sources.

Any new source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403.

[60 FR 33952, June 29, 1995]

Subpart B—Fatty Acid Manufacturing by Fat Splitting Subcategory

§ 417.20 Applicability; description of the fatty acid manufacturing by fat splitting subcategory.

The provisions of this subpart are applicable to discharges resulting from the splitting of fats to fatty acids by hydrolysis and the subsequent processing of the fatty acids (e.g., refining and hydrogenation) to produce a suitable feed material for manufacture of soap by fatty acid neutralization.

§ 417.21 Specialized definitions.

For the purpose of this subpart:

(a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

(b) The term *anhydrous product* shall mean the theoretical product that would result if all water were removed from the actual product.

§ 417.22 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in §§ 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

(a) The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be dis-

charged by a point source subject to the provisions of this subpart after application of the best practicable control technology currently available:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 3.60 | 1.20 |
| COD | 9.90 | 3.30 |
| TSS | 6.60 | 2.20 |
| Oil and grease | 0.90 | .30 |
| pH | (¹)(| ¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 3.60 | 1.20 |
| COD | 9.90 | 3.30 |
| TSS | 6.60 | 2.20 |
| Oil and grease | 0.90 | .30 |
| pH | (¹)(| ¹) |

¹ Within the range 6.0 to 9.0.

(b) The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section and attributable to the hydrogenation of fatty acids, which may be discharged by a point source subject to the provisions of this subpart in addition to the discharge allowed by paragraph (a) of this section.

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.45 | 0.15 |
| COD | 0.75 | .25 |
| TSS | 0.30 | .10 |
| Oil and grease | 0.30 | .10 |
| pH | (¹)(| ¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.45 | 0.15 |
| COD | 0.75 | .25 |
| TSS | 0.30 | .10 |
| Oil and grease | 0.30 | .10 |
| pH | (¹)(| ¹) |

¹ Within the range 6.0 to 9.0.

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[39 FR 13372, Apr. 12, 1974, as amended at 60 FR 33952, June 29, 1995]

§ 417.23 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

(a) The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a point source subject to the provisions of this subpart after application of the best available technology economically achievable:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.50 | 0.25 |
| COD | 1.80 | .90 |
| TSS | 0.40 | .20 |
| Oil and grease | 0.30 | .15 |
| pH | (¹)(| ¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.50 | 0.25 |
| COD | 1.80 | .90 |
| TSS | 0.40 | .20 |
| Oil and grease | 0.30 | .15 |
| pH | (¹)(| ¹) |

¹ Within the range 6.0 to 9.0.

(b) The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section and attributable to the hydrogenation of fatty acids, which may be discharged by a point source subject to the provisions of this subpart in addition to the discharge allowed by paragraph (a) of this section.

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.30 | 0.15 |
| COD | 0.50 | .25 |
| TSS | 0.20 | .10 |
| Oil and grease | 0.20 | .10 |
| pH | (¹)(| ¹) |

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.30 | 0.15 |
| COD | 0.50 | .25 |
| TSS | 0.20 | .10 |
| Oil and grease | 0.20 | .10 |
| pH | (¹)(| ¹) |

¹ Within the range 6.0 to 9.0.

§ 417.24 Pretreatment standards for existing sources.

Any existing source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403. In addition, the following pretreatment standard establishes the quantity or quality of pollutants or pollutant properties controlled by this section which may be discharged to a publicly owned treatment works by a point source subject to the provisions of this subpart.

| Pollutant or pollutant property | Pretreatment standard |
|---------------------------------|-----------------------|
| pH | No limitation. |
| BOD ₅ | Do. |
| TSS | Do. |
| Oil and grease | Do. |
| COD | Do. |

[40 FR 6442, Feb. 11, 1975, as amended at 60 FR 33952, June 29, 1995]

§ 417.25 Standards of performance for new sources.

(a) The following standards of performance establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a new source subject to the provisions of this subpart:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.50 | 0.25 |
| COD | 1.80 | .90 |
| TSS | 0.40 | .20 |
| Oil and grease | 0.30 | .15 |

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Subpart C—Soap Manufacturing by Fatty Acid Neutralization Subcategory

§ 417.30 Applicability; description of the soap manufacturing by fatty acid neutralization subcategory.

The provisions of this subpart are applicable to discharges resulting from the manufacturing of neat soap by neutralizing refined fatty acids with an alkaline material in approximately stoichiometric amounts in batch or continuous operations.

§ 417.31 Specialized definitions.

For the purpose of this subpart:

(a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

(b) The term *anhydrous product* shall mean the theoretical product that would result if all water were removed from the actual product.

(c) The term *neat soap* shall mean the solution of completely saponified and purified soap containing about 20–30 percent water which is ready for final formulation into a finished product.

§ 417.32 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in §§ 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| pH | (¹)(| ¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.50 | 0.25 |
| COD | 1.80 | .90 |
| TSS | 0.40 | .20 |
| Oil and grease | 0.30 | .15 |
| pH | (¹)(| ¹) |

¹ Within the range 6.0 to 9.0.

(b) The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section and attributable to the hydrogenation of fatty acids, which may be discharged by a new source subject to the provisions of this subpart in addition to the discharge allowed by paragraph (a) of this section.

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.30 | 0.15 |
| COD | 0.50 | .25 |
| TSS | 0.20 | .10 |
| Oil and grease | 0.20 | .10 |
| pH | (¹)(| ¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.30 | 0.15 |
| COD | 0.50 | .25 |
| TSS | 0.20 | .10 |
| Oil and grease | 0.20 | .10 |
| pH | (¹)(| ¹) |

¹ Within the range 6.0 to 9.0.

§ 417.26 Pretreatment standards for new sources.

Any new source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403.

[60 FR 33952, June 29, 1995]

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.03 | 0.01 |
| COD | 0.15 | .05 |
| TSS | 0.06 | .02 |
| Oil and grease | 0.03 | .01 |
| pH | (¹)(| ¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.03 | 0.01 |
| COD | 0.15 | .05 |

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| Effluent characteristic | Effluent limitations | |
|-------------------------|-----------------------|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| TSS | 0.06 | .02 |
| Oil and grease | 0.03 | .01 |
| pH | (¹)(| ¹) |

¹ Within the range 6.0 to 9.0.

[39 FR 13372, Apr. 12, 1974; 39 FR 17841, May 21, 1974, as amended at 60 FR 33952, June 29, 1995]

§ 417.33 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a point source subject to the provisions of this subpart after application of the best available technology economically achievable:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD5 | 0.02 | 0.01 |
| COD | 0.10 | .05 |
| TSS | 0.04 | .02 |
| Oil and grease | 0.02 | .01 |
| pH | (¹)(| ¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD5 | 0.02 | 0.01 |
| COD | 0.10 | .05 |
| TSS | 0.04 | .02 |
| Oil and grease | 0.02 | .01 |
| pH | (¹)(| ¹) |

¹ Within the range 6.0 to 9.0.

§ 417.34 Pretreatment standards for existing sources.

Any existing source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403. In addition, the following pretreatment standard establishes the quantity or quality of pollutants or pollutant properties con-

trolled by this section which may be discharged to a publicly owned treatment works by a point source subject to the provisions of this subpart.

| Pollutant or pollutant property | Pretreatment standard |
|---------------------------------|-----------------------|
| pH | No limitation. |
| BOD5 | Do. |
| TSS | Do. |
| Oil and grease | Do. |
| COD | Do. |

[40 FR 6442, Feb. 11, 1975, as amended at 60 FR 33952, June 29, 1995]

§ 417.35 Standards of performance for new sources.

The following standards of performance establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a new source subject to the provisions of this subpart:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD5 | 0.02 | 0.01 |
| COD | 0.10 | .05 |
| TSS | 0.04 | .02 |
| Oil and grease | 0.02 | .01 |
| pH | (¹)(| ¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD5 | 0.02 | 0.01 |
| COD | 0.10 | .05 |
| TSS | 0.04 | .02 |
| Oil and grease | 0.02 | .01 |
| pH | (¹)(| ¹) |

¹ Within the range 6.0 to 9.0.

§ 417.36 Pretreatment standards for new sources.

Any new source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403.

[60 FR 33952, June 29, 1995]

§ 417.44

Subpart D—Glycerine Concentration Subcategory

§ 417.40 Applicability; description of the glycerine concentration sub- category.

The provisions of this subpart are applicable to discharges resulting from the concentration of sweet water from saponification or fat splitting to approximately 60 to 80 percent crude glycerine content.

§ 417.41 Specialized definitions.

For the purpose of this subpart:

(a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

(b) The term *anhydrous product* shall mean the theoretical product that would result if all water were removed from the actual product.

(c) The term *sweet water* shall mean the solution of 8–10 percent crude glycerine and 90–22 percent water that is a by-product of saponification or fat splitting.

§ 417.42 Effluent limitations guidelines representing the degree of effluent reduction attainable by the applica- tion of the best practicable control technology currently available.

Except as provided in §§ 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 4.50 | 1.50 |
| COD | 13.50 | 4.50 |
| TSS | 0.60 | .20 |
| Oil and grease | 0.30 | .10 |
| pH | (¹)(| ¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 4.50 | 1.50 |
| COD | 13.50 | 4.50 |
| TSS | 0.60 | .20 |
| Oil and grease | 0.30 | .10 |

| Effluent characteristic | Effluent limitations | |
|-------------------------|-----------------------|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| pH | (¹)(| ¹) |

¹ Within the range 6.0 to 9.0.

[39 FR 13372, Apr. 12, 1974; 39 FR 17540, May 17, 1974, as amended at 60 FR 33952, June 29, 1995]

§ 417.43 Effluent limitations guidelines representing the degree of effluent reduction attainable by the applica- tion of the best available tech- nology economically achievable.

The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a point source subject to the provisions of this subpart after application of the best available technology economically achievable:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.80 | 0.40 |
| COD | 2.40 | 1.20 |
| TSS | 0.20 | .10 |
| Oil and grease | 0.08 | .04 |
| pH | (¹)(| ¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.80 | 0.40 |
| COD | 2.40 | 1.20 |
| TSS | 0.20 | .10 |
| Oil and grease | 0.08 | .04 |
| pH | (¹)(| ¹) |

¹ Within the range 6.0 to 9.0.

§ 417.44 Pretreatment standards for existing sources.

Any existing source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403. In addition, the following pretreatment standard establishes the quantity or quality of pollutants or pollutant properties controlled by this section which may be discharged to a publicly owned treatment works by a point source subject to the provisions of this subpart.

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| Pollutant or pollutant property | Pretreatment standard |
|---------------------------------|-----------------------|
| pH | No limitation. |
| BOD ₅ | Do. |
| TSS | Do. |
| Oil and grease | Do. |
| COD | Do. |

[40 FR 6442, Feb. 11, 1975, as amended at 60 FR 33952, June 29, 1995]

§ 417.45 Standards of performance for new sources.

The following standards of performance establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a new source subject to the provisions of this subpart:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.80 | 0.40 |
| COD | 2.40 | 1.20 |
| TSS | 0.20 | .10 |
| Oil and grease | 0.08 | .04 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.80 | 0.40 |
| COD | 2.40 | 1.20 |
| TSS | 0.20 | .10 |
| Oil and grease | 0.08 | .04 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

§ 417.46 Pretreatment standards for new sources.

Any new source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403.

[60 FR 33953, June 29, 1995]

Subpart E—Glycerine Distillation Subcategory

§ 417.50 Applicability; description of the glycerine distillation subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of fin-

ished glycerine of various grades (e.g., USP) through concentration from crude glycerine by means of distillation.

§ 417.51 Specialized definitions.

For the purpose of this subpart:

(a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

(b) The term *anhydrous product* shall mean the theoretical product that would result if all water were removed from the actual product.

§ 417.52 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in §§ 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 1.50 | 0.50 |
| COD | 4.50 | 1.50 |
| TSS | 0.60 | .20 |
| Oil and grease | 0.30 | .10 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 1.50 | 0.50 |
| COD | 4.50 | 1.50 |
| TSS | 0.60 | .20 |
| Oil and grease | 0.30 | .10 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

[39 FR 13372, Apr. 12, 1974, as amended at 60 FR 33953, June 29, 1995]

§ 417.53 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

The following limitations establish the quantity or quality of pollutants or pollutant properties,

§ 417.61

controlled by this section, which may be discharged by a point source subject to the provisions of this subpart after application of the best available technology economically achievable:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.60 | 0.30 |
| COD | 1.80 | .90 |
| TSS | 0.08 | .04 |
| Oil and grease | 0.04 | .02 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| | | |
| | | |
| BOD ₅ | 0.60 | 0.30 |
| COD | 1.80 | .90 |
| TSS | 0.08 | .04 |
| Oil and grease | 0.04 | .02 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

§ 417.54 Pretreatment standards for existing sources.

Any existing source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403. In addition, the following pretreatment standard establishes the quantity or quality of pollutants or pollutant properties controlled by this section which may be discharged to a publicly owned treatment works by a point source subject to the provisions of this subpart.

| Pollutant or pollutant property | Pretreatment standard |
|---------------------------------|-----------------------|
| pH | No limitation. |
| BOD ₅ | Do. |
| TSS | Do. |
| Oil and grease | Do. |
| COD | Do. |

[40 FR 6442, Feb. 11, 1975, as amended at 60 FR 33953, June 29, 1995]

§ 417.55 Standards of performance for new sources.

The following standards of performance establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a new source subject to the provisions of this subpart:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.60 | 0.30 |
| COD | 1.80 | .90 |
| TSS | 0.08 | .04 |
| Oil and grease | 0.04 | .02 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| | | |
| | | |
| BOD ₅ | 0.60 | 0.30 |
| COD | 1.80 | .90 |
| TSS | 0.08 | .04 |
| Oil and grease | 0.04 | .02 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

§ 417.56 Pretreatment standards for new sources.

Any new source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403.

[60 FR 33953, June 29, 1995]

Subpart F—Manufacture of Soap Flakes and Powders Subcategory

§ 417.60 Applicability; description of the manufacture of soap flakes and powders subcategory.

The provisions of this subpart are applicable to discharges resulting from all operations associated with the manufacture of soap flakes and powders, commencing with the drying of the neat soap to and including packaging of the finished flakes and powders.

§ 417.61 Specialized definitions.

For the purpose of this subpart:

(a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

(b) The term *anhydrous product* shall mean the theoretical product that would result if all water were removed from the actual product.

(c) The term *neat soap* shall mean the solution of completely saponified and purified soap containing about 20–30 percent water which is ready for final formulation into a finished product.

§ 417.62

§ 417.62 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in §§ 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

| Effluent characteristic | Effluent limitations | | |
|-------------------------|-----------------------|---|--|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— | |
| | | Metric units (kilograms per 1,000 kg of anhydrous product) | English units (pounds per 1,000 lb of anhydrous product) |
| BOD ₅ | 0.03 | 0.01 | |
| COD | 0.15 | .05 | |
| TSS | 0.03 | .01 | |
| Oil and grease | 0.03 | .01 | |
| pH | (¹) | (¹) | |
| BOD ₅ | 0.03 | 0.01 | |
| COD | 0.15 | .05 | |
| TSS | 0.03 | .01 | |
| Oil and grease | 0.03 | .01 | |
| pH | (¹) | (¹) | |

¹ Within the range 6.0 to 9.0.

[39 FR 13372, Apr. 12, 1974, as amended at 60 FR 33953, June 29, 1995]

§ 417.63 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a point source subject to the provisions of this subpart after application of the best available technology economically achievable:

| Effluent characteristic | Effluent limitations | | |
|-------------------------|-----------------------|---|--|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— | |
| | | Metric units (kilograms per 1,000 kg of anhydrous product) | English units (pounds per 1,000 lb of anhydrous product) |
| BOD ₅ | 0.02 | 0.01 | |
| COD | 0.10 | .05 | |
| TSS | 0.02 | .01 | |
| Oil and grease | 0.02 | .01 | |
| pH | (¹) | (¹) | |
| BOD ₅ | 0.02 | 0.01 | |
| COD | 0.10 | .05 | |
| TSS | 0.02 | .01 | |
| Oil and grease | 0.02 | .01 | |
| pH | (¹) | (¹) | |

¹ Within the range 6.0 to 9.0.

§ 417.64 Pretreatment standards for existing sources.

Any existing source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403. In addition, the following pretreatment standard establishes the quantity or quality of pollutants or pollutant properties controlled by this section which may be discharged to a publicly owned treatment works by a point source subject to the provisions of this subpart.

| Pollutant or pollutant property | Pretreatment standard |
|---------------------------------|-----------------------|
| pH | No limitation. |
| BOD ₅ | Do. |
| TSS | Do. |
| Oil and grease | Do. |
| COD | Do. |

[40 FR 6442, Feb. 11, 1975, as amended at 60 FR 33953, June 29, 1995]

§ 417.65 Standards of performance for new sources.

The following standards of performance establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a new source subject to the provisions of this subpart:

§ 417.73

(c) The term *neat soap* shall mean the solution of completely saponified and purified soap containing about 20–30 percent water which is ready for final formulation into a finished product.

§ 417.72 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in §§ 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.02 | 0.01 |
| COD | 0.10 | .05 |
| TSS | 0.02 | .01 |
| Oil and grease | 0.02 | .01 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.02 | 0.01 |
| COD | 0.10 | .05 |
| TSS | 0.02 | .01 |
| Oil and grease | 0.02 | .01 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

§ 417.66 Pretreatment standards for new sources.

Any new source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403.

[60 FR 33953, June 29, 1995]

Subpart G—Manufacture of Bar Soaps Subcategory

§ 417.70 Applicability; description of the manufacture of bar soaps subcategory.

The provisions of this subpart are applicable to discharges resulting from all operations associated with conversion of neat soap to finished bar soaps, including drying, milling, plodding, stamping and packaging.

§ 417.71 Specialized definitions.

For the purpose of this subpart:

(a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

(b) The term *anhydrous product* shall mean the theoretical product that would result if all water were removed from the actual product.

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 1.02 | 0.34 |
| COD | 2.55 | .85 |
| TSS | 1.74 | .58 |
| Oil and grease | 0.12 | .04 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 1.02 | 0.34 |
| COD | 2.55 | .85 |
| TSS | 1.74 | .58 |
| Oil and grease | 0.12 | .04 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

[39 FR 13372, Apr. 12, 1974, as amended at 60 FR 33953, June 29, 1995]

§ 417.73 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a point source subject to the provisions of this subpart after application of the best available technology economically achievable:

§ 417.74

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.40 | 0.20 |
| COD | 1.20 | .60 |
| TSS | 0.68 | .34 |
| Oil and grease | 0.06 | .03 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.40 | 0.20 |
| COD | 1.20 | .60 |
| TSS | 0.68 | .34 |
| Oil and grease | 0.06 | .03 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

§ 417.74 Pretreatment standards for existing sources.

Any existing source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403. In addition, the following pretreatment standard establishes the quantity or quality of pollutants or pollutant properties controlled by this section which may be discharged to a publicly owned treatment works by a point source subject to the provisions of this subpart.

| Pollutant or pollutant property | Pretreatment standard |
|---------------------------------|-----------------------|
| pH | No limitation. |
| BOD ₅ | Do. |
| TSS | Do. |
| Oil and grease | Do. |
| COD | Do. |

[39 FR 13372, Apr. 12, 1974, as amended at 60 FR 33953, June 29, 1995]

§ 417.75 Standards of performance for new sources.

The following standards of performance establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a new source subject to the provisions of this subpart:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.40 | 0.20 |
| COD | 1.20 | .60 |
| TSS | 0.68 | .34 |
| Oil and grease | 0.06 | .03 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.40 | 0.20 |
| COD | 1.20 | .60 |
| TSS | 0.68 | .34 |
| Oil and grease | 0.06 | .03 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

§ 417.76 Pretreatment standards for new sources.

Any new source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403.

[60 FR 33953, June 29, 1995]

Subpart H—Manufacture of Liquid Soaps Subcategory

§ 417.80 Applicability; description of the manufacture of liquid soaps subcategory.

The provisions of this subpart are applicable to discharges resulting from the blending of ingredients employed in the manufacture of liquid soaps and the packaging of the finished products.

§ 417.81 Specialized definitions.

For the purpose of this subpart:

(a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

(b) The term *anhydrous product* shall mean the theoretical product that would result if all water were removed from the actual product.

§ 417.85

§ 417.82 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in §§ 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.03 | 0.01 |
| COD | 0.15 | .05 |
| TSS | 0.03 | .01 |
| Oil and grease | 0.03 | .01 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.03 | 0.01 |
| COD | 0.15 | .05 |
| TSS | 0.03 | .01 |
| Oil and grease | 0.03 | .01 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

[39 FR 13372, Apr. 12, 1974, as amended at 60 FR 33953, June 29, 1995]

§ 417.83 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a point source subject to the provisions of this subpart after application of the best available technology economically achievable:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.02 | 0.01 |
| COD | 0.10 | .05 |
| TSS | 0.02 | .01 |
| Oil and grease | 0.02 | .01 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.02 | 0.01 |
| COD | 0.10 | .05 |
| TSS | 0.02 | .01 |
| Oil and grease | 0.02 | .01 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

§ 417.84 Pretreatment standards for existing sources.

Any existing source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403. In addition, the following pretreatment standard establishes the quantity or quality of pollutants or pollutant properties controlled by this section which may be discharged to a publicly owned treatment works by a point source subject to the provisions of this subpart.

| Pollutant or pollutant property | Pretreatment standard |
|---------------------------------|-----------------------|
| pH | No limitation. |
| BOD ₅ | Do. |
| TSS | Do. |
| Oil and grease | Do. |
| COD | Do. |

[39 FR 13372, Apr. 12, 1974, as amended at 60 FR 33953, June 29, 1995]

§ 417.85 Standards of performance for new sources.

The following standards of performance establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a new source subject to the provisions of this subpart:

§ 417.86

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD5 | 0.02 | 0.01 |
| COD | 0.10 | .05 |
| TSS | 0.02 | .01 |
| Oil and grease | 0.02 | .01 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD5 | 0.02 | 0.01 |
| COD | 0.10 | .05 |
| TSS | 0.02 | .01 |
| Oil and grease | 0.02 | .01 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

§ 417.86 Pretreatment standards for new sources.

Any new source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403.

[60 FR 33954, June 29, 1995]

Subpart I—Oleum Sulfonation and Sulfation Subcategory

§ 417.90 Applicability; description of the oleum sulfonation and sulfation subcategory.

The provisions of this subpart are applicable to discharges resulting from the manufacture of sulfonic acid and sulfuric acid esters by means of sulfonation and sulfation of raw materials, including but not limited to petroleum derived alkyls, employing oleum in either continuous or batch processes.

§ 417.91 Specialized definitions.

For the purpose of this subpart:

(a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

(b) The term *anhydrous product* shall mean the theoretical product that would result if all water were removed from the actual product.

(c) The term *surfactant* shall mean those methylene blue active substances amendable to meas-

urement by the method described in “Methods for Chemical Analysis of Water and Wastes,” 1971, Environmental Protection Agency, Analytical Quality Control Laboratory, page 131.

§ 417.92 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in §§ 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD5 | 0.09 | 0.02 |
| COD | 0.40 | .09 |
| TSS | 0.15 | .03 |
| Surfactants | 0.15 | .03 |
| Oil and grease | 0.25 | .07 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD5 | 0.09 | 0.02 |
| COD | 0.40 | .09 |
| TSS | 0.15 | .03 |
| Surfactants | 0.15 | .03 |
| Oil and grease | 0.25 | .07 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

[39 FR 13372, Apr. 12, 1974, as amended at 60 FR 33954, June 29, 1995]

§ 417.93 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a point source subject to the provisions of this subpart after application of the best available technology economically achievable:

§ 417.101

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.07 | 0.02 |
| COD | 0.27 | .09 |
| TSS | 0.09 | .03 |
| Surfactants | 0.09 | .03 |
| Oil and grease | 0.21 | .07 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| | | |
| | | |
| BOD ₅ | 0.07 | 0.02 |
| COD | 0.27 | .09 |
| TSS | 0.09 | .03 |
| Surfactants | 0.09 | .03 |
| Oil and grease | 0.21 | .07 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

§ 417.94 Pretreatment standards for existing sources.

Any existing source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403. In addition, the following pretreatment standard establishes the quantity or quality of pollutants or pollutant properties controlled by this section which may be discharged to a publicly owned treatment works by a point source subject to the provisions of this subpart.

| Pollutant or pollutant property | Pretreatment standard |
|---------------------------------|-----------------------|
| pH | No limitation. |
| BOD ₅ | Do. |
| TSS | Do. |
| Oil and grease | Do. |
| COD | Do. |
| Surfactants | Do. |

[40 FR 6443, Feb. 11, 1975, as amended at 60 FR 33954, June 29, 1995]

§ 417.95 Standards of performance for new sources.

The following standards of performance establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a new source subject to the provisions of this subpart:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.03 | 0.01 |
| COD | 0.09 | .03 |
| TSS | 0.06 | .02 |
| Surfactants | 0.03 | .01 |
| Oil and grease | 0.12 | .04 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| | | |
| | | |
| BOD ₅ | 0.03 | 0.01 |
| COD | 0.09 | .03 |
| TSS | 0.06 | .02 |
| Surfactants | 0.03 | .01 |
| Oil and grease | 0.12 | .04 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

§ 417.96 Pretreatment standards for new sources.

Any new source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403.

[60 FR 33954, June 29, 1995]

Subpart J—Air—SO₃ Sulfation and Sulfonation Subcategory

§ 417.100 Applicability; description of the air—SO₃ sulfation and sulfonation subcategory.

The provisions of this subpart are applicable to discharges resulting from the manufacture of sulfonic acids and sulfuric acid esters by means of sulfation and sulfonation employing air and sulfur trioxide (SO₃), in either continuous or batch processes.

§ 417.101 Specialized definitions.

For the purpose of this subpart:

(a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

(b) The term *anhydrous product* shall mean the theoretical product that would result if all water were removed from the actual product.

(c) The term *surfactant* shall mean those methylene blue active substances amenable to measure-

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ment by the method described in “Methods for Chemical Analysis of Water and Wastes,” 1971, Environmental Protection Agency, Analytical Quality Control Laboratory, page 131.

§ 417.102 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in §§ 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.90 | 0.30 |
| COD | 4.05 | 1.35 |
| TSS | 0.09 | .03 |
| Surfactants | 0.90 | .30 |
| Oil and grease | 0.15 | .05 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.90 | 0.30 |
| COD | 4.05 | 1.35 |
| TSS | 0.09 | .03 |
| Surfactants | 0.90 | .30 |
| Oil and grease | 0.10 | .05 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

[39 FR 13372, Apr. 12, 1974, as amended at 60 FR 33954, June 29, 1995]

§ 417.103 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a point source subject to the provisions

of this subpart after application of the best available technology economically achievable:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.03 | 0.01 |
| COD | 0.09 | .03 |
| TSS | 0.06 | .02 |
| Surfactants | 0.03 | .01 |
| Oil and grease | 0.12 | .04 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

§ 417.96 Pretreatment standards for new sources.

Any new source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403.

[60 FR 33954, June 29, 1995]

Subpart J—Air—SO₃ Sulfation and Sulfonation Subcategory

§ 417.100 Applicability; description of the air—SO₃ sulfation and sulfonation subcategory.

The provisions of this subpart are applicable to discharges resulting from the manufacture of sulfonic acids and sulfuric acid esters by means of sulfation and sulfonation employing air and sulfur trioxide (SO₃), in either continuous or batch processes.

§ 417.101 Specialized definitions.

For the purpose of this subpart:

(a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

(b) The term *anhydrous product* shall mean the theoretical product that would result if all water were removed from the actual product.

(c) The term *surfactant* shall mean those methylene blue active substances amenable to measurement by the method described in “Methods for Chemical Analysis of Water and Wastes,” 1971, Environmental Protection Agency, Analytical Quality Control Laboratory, page 131.

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§ 417.102 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in §§ 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.90 | 0.30 |
| COD | 4.05 | 1.35 |
| TSS | 0.09 | .03 |
| Surfactants | 0.90 | .30 |
| Oil and grease | 0.15 | .05 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.90 | 0.30 |
| COD | 4.05 | 1.35 |
| TSS | 0.09 | .03 |
| Surfactants | 0.90 | .30 |
| Oil and grease | 0.10 | .05 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

[39 FR 13372, Apr. 12, 1974, as amended at 60 FR 33954, June 29, 1995]

§ 417.103 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a point source subject to the provisions of this subpart after application of the best available technology economically achievable:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.30 | 0.19 |
| COD | 1.10 | .55 |
| TSS | 0.04 | .02 |
| Surfactants | 0.36 | .18 |
| Oil and grease | 0.08 | .04 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.30 | 0.19 |
| COD | 1.10 | .55 |
| TSS | 0.04 | .02 |
| Surfactants | 0.36 | .18 |
| Oil and grease | 0.08 | .04 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

§ 417.104 Pretreatment standards for existing sources.

Any existing source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403. In addition, the following pretreatment standard establishes the quantity or quality of pollutants or pollutant properties controlled by this section which may be discharged to a publicly owned treatment works by a point source subject to the provisions of this subpart.

| Pollutant or pollutant property | Pretreatment standard |
|---------------------------------|-----------------------|
| pH | No limitation. |
| BOD ₅ | Do. |
| TSS | Do. |
| Oil and grease | Do. |
| COD | Do. |
| Surfactants | Do. |

[40 FR 6443, Feb. 11, 1975, as amended at 60 FR 33954, June 29, 1995]

§ 417.105 Standards of performance for new sources.

The following standards of performance establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a new source subject to the provisions of this subpart:

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| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.18 | 0.09 |
| COD | 0.80 | .40 |
| TSS | 0.04 | .02 |
| Surfactants | 0.18 | .09 |
| Oil and grease | 0.04 | .02 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.18 | 0.09 |
| COD | 0.80 | .40 |
| TSS | 0.04 | .02 |
| Surfactants | 0.18 | .09 |
| Oil and grease | 0.04 | .02 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

§ 417.106 Pretreatment standards for new sources.

Any new source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403.

[60 FR 33954, June 29, 1995]

Subpart K—SO₃ Solvent and Vacuum Sulfonation Subcategory

§ 417.110 Applicability; description of the SO₃ solvent and vacuum sulfonation subcategory.

The provisions of this subpart are applicable to discharges resulting from the operations in which undiluted SO₃ and organic reactant are fed through a mixing nozzle into a vacuum reactor where the sulfonation of the organic reactant takes place.

§ 417.111 Specialized definitions.

For the purpose of this subpart:

(a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

(b) The term *anhydrous product* shall mean the theoretical product that would result if all water were removed from the actual product.

(c) The term *surfactant* shall mean those methylene blue active substances amenable to measure-

ment by the method described in "Methods for Chemical Analysis of Water and Wastes," 1971, Environmental Protection Agency, Analytical Quality Control Laboratory, page 131.

§ 417.112 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in §§ 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.90 | 0.30 |
| COD | 3.05 | 1.35 |
| TSS | 0.09 | .03 |
| Surfactants | 0.90 | .30 |
| Oil and grease | 0.10 | .05 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.90 | 0.30 |
| COD | 3.05 | 1.35 |
| TSS | 0.09 | .03 |
| Surfactants | 0.90 | .30 |
| Oil and grease | 0.10 | .05 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

[39 FR 13372, Apr. 12, 1974, as amended at 60 FR 33954, June 29, 1995]

§ 417.113 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a point source subject to the provisions of this subpart after application of the best available technology economically achievable:

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| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.20 | 0.10 |
| COD | 0.90 | .45 |
| TSS | 0.02 | .01 |
| Surfactants | 0.20 | .10 |
| Oil and grease | 0.04 | .02 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| | | |
| | | |
| BOD ₅ | 0.20 | 0.10 |
| COD | 0.90 | .45 |
| TSS | 0.02 | .01 |
| Surfactants | 0.20 | .10 |
| Oil and grease | 0.04 | .02 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

§ 417.114 Pretreatment standards for existing sources.

Any existing source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403. In addition, the following pretreatment standard establishes the quantity or quality of pollutants or pollutant properties controlled by this section which may be discharged to a publicly owned treatment works by a point source subject to the provisions of this subpart.

| Pollutant or pollutant property | Pretreatment standard |
|---------------------------------|-----------------------|
| pH | No limitation. |
| BOD ₅ | Do. |
| TSS | Do. |
| Oil and grease | Do. |
| COD | Do. |
| Surfactants | Do. |

[40 FR 6443, Feb. 11, 1975, as amended at 60 FR 33954, June 29, 1995]

§ 417.115 Standards of performance for new sources.

The following standards of performance establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a new source subject to the provisions of this subpart:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.20 | 0.10 |
| COD | 0.90 | .45 |
| TSS | 0.02 | .01 |
| Surfactants | 0.20 | .10 |
| Oil and grease | 0.04 | .02 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| | | |
| | | |
| BOD ₅ | 0.20 | 0.10 |
| COD | 0.90 | .45 |
| TSS | 0.02 | .01 |
| Surfactants | 0.20 | .10 |
| Oil and grease | 0.04 | .02 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

§ 417.116 Pretreatment standards for new sources.

Any new source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403.

[60 FR 33954, June 29, 1995]

Subpart L—Sulfamic Acid Sulfation Subcategory

§ 417.120 Applicability; description of the sulfamic acid sulfation subcategory.

The provisions of this subpart are applicable to discharges resulting from operations in which sulfamic acid is employed as the sulfating agent.

§ 417.121 Specialized definitions.

For the purpose of this subpart:

(a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

(b) The term *anhydrous product* shall mean the theoretical product that would result if all water were removed from the actual product.

(c) The term *surfactant* shall mean those methylene blue active substances amenable to measurement by the method described in “Methods for Chemical Analysis of Water and Wastes,” 1971,

§ 417.122

Environmental Protection Agency, Analytical Quality Control Laboratory, page 131.

§ 417.122 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in §§ 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.90 | 0.30 |
| COD | 4.05 | 1.35 |
| TSS | 0.09 | .03 |
| Surfactants | 0.90 | .30 |
| Oil and grease | 0.15 | .05 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| | | |
| | | |
| BOD ₅ | 0.90 | 0.30 |
| COD | 4.05 | 1.35 |
| TSS | 0.09 | .03 |
| Surfactants | 0.90 | .30 |
| Oil and grease | 0.15 | .05 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

[39 FR 13372, Apr. 12, 1974, as amended at 60 FR 33954, June 29, 1995]

§ 417.123 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a point source subject to the provisions of this subpart after application of the best available technology economically achievable:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.20 | 0.10 |
| COD | 0.90 | .48 |
| TSS | 0.02 | .01 |
| Surfactants | 0.20 | .10 |
| Oil and grease | 0.04 | .02 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| | | |
| | | |
| BOD ₅ | 0.20 | 0.10 |
| COD | 0.90 | .48 |
| TSS | 0.02 | .01 |
| Surfactants | 0.20 | .10 |
| Oil and grease | 0.04 | .02 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

§ 417.124 Pretreatment standards for existing sources.

Any existing source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403. In addition, the following pretreatment standard establishes the quantity or quality of pollutants or pollutant properties controlled by this section which may be discharged to a publicly owned treatment works by a point source subject to the provisions of this subpart.

| Pollutant or pollutant property | Pretreatment standard |
|---------------------------------|-----------------------|
| pH | No limitation. |
| BOD ₅ | Do. |
| TSS | Do. |
| Oil and grease | Do. |
| COD | Do. |
| Surfactants | Do. |

[40 FR 6443, Feb. 11, 1975, as amended at 60 FR 33954, June 29, 1995]

§ 417.125 Standards of performance for new sources.

The following standards of performance establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a new source subject to the provisions of this subpart:

§ 417.133

Environmental Protection Agency, Analytical Quality Control Laboratory, page 131.

§ 417.132 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in §§ 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.20 | 0.10 |
| COD | 0.90 | .45 |
| TSS | 0.02 | .01 |
| Surfactants | 0.20 | .10 |
| Oil and grease | 0.04 | .02 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.20 | 0.10 |
| COD | 0.90 | .45 |
| TSS | 0.02 | .01 |
| Surfactants | 0.20 | .10 |
| Oil and grease | 0.04 | .02 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

§ 417.126 Pretreatment standards for new sources.

Any new source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403.

[60 FR 33954, June 29, 1995]

Subpart M—Chlorosulfonic Acid Sulfation Subcategory

§ 417.130 Applicability; description of the chlorosulfonic acid sulfation subcategory.

The provisions of this subpart are applicable to discharges resulting from sulfation of alcohols, alkylphenols and alcohol ethoxylates utilizing chlorosulfonic acid as the sulfating agent.

§ 417.131 Specialized definitions.

For the purpose of this subpart:

(a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

(b) The term *anhydrous product* shall mean the theoretical product that would result if all water were removed from the actual product.

(c) The term *surfactant* shall mean those methylene blue active substances amendable to measurement by the method described in "Methods for Chemical Analysis of Water and Wastes," 1971,

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.90 | 0.30 |
| COD | 4.05 | 1.35 |
| TSS | 0.09 | .03 |
| Surfactants | 0.90 | .30 |
| Oil and grease | 0.15 | .05 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.90 | 0.30 |
| COD | 4.05 | 1.35 |
| TSS | 0.09 | .03 |
| Surfactants | 0.90 | .30 |
| Oil and grease | 0.15 | .05 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

[39 FR 13372, Apr. 12, 1974, as amended at 60 FR 33955, June 29, 1995]

§ 417.133 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a point source subject to the provisions of this subpart after application of the best available technology economically achievable:

§ 417.134

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.30 | 0.15 |
| COD | 1.50 | .75 |
| TSS | 0.04 | .02 |
| Surfactants | 0.30 | .15 |
| Oil and grease | 0.06 | .03 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| | | |
| | | |
| BOD ₅ | 0.30 | 0.15 |
| COD | 1.50 | .75 |
| TSS | 0.04 | .02 |
| Surfactants | 0.30 | .15 |
| Oil and grease | 0.06 | .03 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

§ 417.134 Pretreatment standards for existing sources.

Any existing source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403. In addition, the following pretreatment standard establishes the quantity or quality of pollutants or pollutant properties controlled by this section which may be discharged to a publicly owned treatment works by a point source subject to the provisions of this subpart.

| Pollutant or pollutant property | Pretreatment standard |
|---------------------------------|-----------------------|
| pH | No limitations. |
| BOD ₅ | Do. |
| TSS | Do. |
| Oil and grease | Do. |
| COD | Do. |
| Surfactants | Do. |

[40 FR 6443, Feb. 11, 1975, as amended at 60 FR 33955, June 29, 1995]

§ 417.135 Standards of performance for new sources.

The following standards of performance establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a new source subject to the provisions of this subpart;

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.30 | 0.15 |
| COD | 1.50 | .75 |
| TSS | 0.04 | .02 |
| Surfactants | 0.30 | .15 |
| Oil and grease | 0.06 | .03 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| | | |
| | | |
| BOD ₅ | 0.30 | 0.15 |
| COD | 1.50 | .75 |
| TSS | 0.04 | .02 |
| Surfactants | 0.30 | .15 |
| Oil and grease | 0.06 | .03 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

§ 417.136 Pretreatment standards for new sources.

Any new source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403.

[60 FR 33955, June 29, 1995]

Subpart N—Neutralization of Sulfuric Acid Esters and Sulfonic Acids Subcategory

§ 417.140 Applicability; description of the neutralization of sulfuric acid esters and sulfonic acids subcategory.

The provisions of this subpart are applicable to discharges resulting from the continuous or batch neutralization of sulfated and sulfonated alkylbenzenes, alcohols and other materials to convert them to neutral salts.

§ 417.141 Specialized definitions.

For the purpose of this subpart:

(a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

(b) The term *anhydrous product* shall mean the theoretical product that would result if all water were removed from the actual product.

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(c) The term *surfactant* shall mean those methylene blue active substances amenable to measurement by the method described in "Methods for Chemical Analysis of Water and Wastes," 1971, Environmental Protection Agency, Analytical Quality Control Laboratory, page 131.

§ 417.142 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in §§ 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.03 | 0.01 |
| COD | 0.15 | .05 |
| TSS | 0.09 | .03 |
| Surfactants | 0.06 | .02 |
| Oil and grease | 0.03 | .01 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.03 | 0.01 |
| COD | 0.15 | .05 |
| TSS | 0.09 | .03 |
| Surfactants | 0.06 | .02 |
| Oil and grease | 0.03 | .01 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

[39 FR 13372, Apr. 12, 1974, as amended at 60 FR 33955, June 29, 1995]

§ 417.143 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a point source subject to the provisions

of this subpart after application of the best available technology economically achievable:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.02 | 0.01 |
| COD | 0.10 | .05 |
| TSS | 0.06 | .03 |
| Surfactants | 0.04 | .02 |
| Oil and grease | 0.02 | .01 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.02 | 0.01 |
| COD | 0.10 | .05 |
| TSS | 0.06 | .03 |
| Surfactants | 0.04 | .02 |
| Oil and grease | 0.02 | .01 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

§ 417.144 Pretreatment standards for existing sources.

Any existing source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403. In addition, the following pretreatment standard establishes the quantity or quality of pollutants or pollutant properties controlled by this section which may be discharged to a publicly owned treatment works by a point source subject to the provisions of this subpart.

| Pollutant or pollutant property | Pretreatment standard |
|---------------------------------|-----------------------|
| pH | No limitations. |
| BOD ₅ | Do. |
| TSS | Do. |
| Oil and grease | Do. |
| COD | Do. |
| Surfactants | Do. |

[40 FR 6443, Feb. 11, 1975, as amended at 60 FR 33955, June 29, 1995]

§ 417.145 Standards of performance for new sources.

The following standards of performance establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a new source subject to the provisions of this subpart:

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| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.02 | 0.01 |
| COD | 0.08 | .04 |
| TSS | 0.06 | .03 |
| Surfactants | 0.04 | .02 |
| Oil and grease | 0.02 | .01 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.02 | 0.01 |
| COD | 0.08 | .04 |
| TSS | 0.06 | .03 |
| Surfactants | 0.04 | .02 |
| Oil and grease | 0.02 | .01 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

§ 417.146 Pretreatment standards for new sources.

Any new source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403.

[60 FR 33955, June 29, 1995]

Subpart O—Manufacture of Spray Dried Detergents Subcategory

§ 417.150 Applicability; description of the manufacture of spray dried detergents subcategory.

The provisions of this subpart are applicable to discharges resulting from all operations associated with the manufacture of spray dried detergents, including but not limited to assembly and storage of raw materials, crutching, spray drying, blending (including tumble spraying of additives) and packaging.

§ 417.151 Specialized definitions.

For the purpose of this subpart:

(a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

(b) The term *anhydrous product* shall mean the theoretical product that would result if all water were removed from the actual product.

(c) The term *surfactant* shall mean those methylene blue active substances amenable to measurement by the method described in “Methods for Chemical Analysis of Water and Wastes,” 1971, Environmental Protection Agency, Analytical Quality Control Laboratory, page 131.

(d) The term *normal operation* of a spray tower shall mean operation utilizing formulations that present limited air quality problems from stack gases and associated need for extensive wet scrubbing, and without more than 6 turnarounds in a 30 consecutive day period, thus permitting essentially complete recycle of waste water.

(e) The term *air quality restricted operation* of a spray tower shall mean an operation utilizing formulations (e.g., those with high non-ionic content) which require a very high rate of wet scrubbing to maintain desirable quality of stack gases, and thus generate much greater quantities of waste water than can be recycled to process.

(f) The term *fast turnaround operation* of a spray drying tower shall mean operation involving more than 6 changes of formulation in a 30 consecutive day period that are of such degree and type (e.g., high phosphate to no phosphate) as to require cleaning of the tower to maintain minimal product quality.

(g) The term BOD₇ shall mean the biochemical oxygen demand as determined by incubation at 20 degrees C for a period of 7 days using an acclimated seed. Agitation employing a magnetic stirrer set at 200 to 500 rpm may be used.

[39 FR 13372, Apr. 12, 1974, as amended at 40 FR 27454, June 30, 1975]

§ 417.152 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in §§ 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

(a) For normal operation of spray drying towers as defined above, the following values pertain:

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| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.03 | 0.01 |
| COD | 0.15 | .05 |
| TSS | 0.03 | .01 |
| Surfactants | 0.06 | .02 |
| Oil and grease | 0.015 | .005 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.03 | 0.01 |
| COD | 0.15 | .05 |
| TSS | 0.03 | .01 |
| Surfactants | 0.06 | .02 |
| Oil and grease | 0.015 | .005 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

(b) For air quality restricted operation of a spray drying tower, but only when a high rate of wet scrubbing is in operation which produces more waste water than can be recycled to process, the following values pertain:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.24 | 0.03 |
| COD | 1.05 | .35 |
| TSS | 0.30 | .10 |
| Surfactants | 0.45 | .15 |
| Oil and grease | 0.09 | .03 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.24 | 0.08 |
| COD | 1.05 | .35 |
| TSS | 0.30 | .10 |
| Surfactants | 0.45 | .15 |
| Oil and grease | 0.09 | .03 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

(c) For fast turnaround operation of a spray tower, the following values pertain: The maximum for any one day when the number of turnarounds exceeds six in any particular thirty consecutive

day period shall be the sum of the appropriate value below and that from paragraph (a) or (b) of this section; and the average of daily values for thirty consecutive days shall be the value shown below multiplied by the number of turnarounds in excess of six and prorated to thirty days plus the appropriate value from paragraph (a) or (b) of this section.

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.02 | 0.01 |
| COD | 0.09 | .03 |
| TSS | 0.02 | .01 |
| Surfactants | 0.03 | .01 |
| Oil and grease | 0.005 | .001 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.02 | 0.01 |
| COD | 0.09 | .03 |
| TSS | 0.02 | .01 |
| Surfactants | 0.03 | .01 |
| Oil and grease | 0.005 | .001 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

[39 FR 13372, Apr. 12, 1974, as amended at 60 FR 33955, June 29, 1995]

§ 417.153 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a point source subject to the provisions of this subpart after application of the best available technology economically achievable:

(a) For normal operation of spray drying towers as defined above, the following values pertain:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.02 | 0.01 |
| COD | 0.08 | .04 |
| TSS | 0.04 | .02 |
| Surfactants | 0.04 | .02 |
| Oil and grease | 0.01 | .005 |

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| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD5 | 0.02 | 0.01 |
| COD | 0.08 | .04 |
| TSS | 0.04 | .02 |
| Surfactants | 0.04 | .02 |
| Oil and grease | 0.01 | .005 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

(b) For air quality restricted operation of a spray drying tower, but only when a high rate of wet scrubbing is in operation which produces more waste water than can be recycled to process, the following values pertain:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD5 | 0.12 | 0.06 |
| COD | 0.50 | .25 |
| TSS | 0.14 | .07 |
| Surfactants | 0.20 | .10 |
| Oil and grease | 0.04 | .02 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD5 | 0.12 | 0.06 |
| COD | 0.50 | .25 |
| TSS | 0.14 | .07 |
| Surfactants | 0.20 | .10 |
| Oil and grease | 0.04 | .02 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

(c) For fast turnaround operation of a spray tower, the following values pertain: The maximum for any one day when the number of turnarounds exceeds six in any particular thirty consecutive day period shall be the sum of the appropriate value below and that from paragraph (a) or (b) of this section; and the average of daily values for thirty consecutive days shall be the values shown below multiplied by the number of turnarounds in excess of six and prorated to thirty days plus the

appropriate value from paragraph (a) or (b) of this section.

| Effluent characteristic | Effluent limitations (maximum for any 1 day) | |
|-------------------------|--|--|
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD5 | 0.02 | |
| COD | 0.07 | |
| TSS | 0.02 | |
| Surfactants | 0.02 | |
| Oil and grease | 0.005 | |
| pH | (¹) | |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD5 | 0.02 | |
| COD | 0.07 | |
| TSS | 0.02 | |
| Surfactants | 0.02 | |
| Oil and grease | 0.005 | |
| pH | (¹) | |

¹ Within the range 6.0 to 9.0.

§ 417.154 [Reserved]

§ 417.155 Standards of performance for new sources.

The following standards of performance establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a new source subject to the provisions of this subpart:

(a) For normal operation of spray drying towers as defined above, the following values pertain:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD5 | 0.02 | 0.01 |
| COD | 0.08 | .04 |
| TSS | 0.04 | .02 |
| Surfactants | 0.04 | .02 |
| Oil and grease | 0.01 | .005 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD5 | 0.02 | 0.01 |
| COD | 0.08 | .04 |
| TSS | 0.04 | .02 |
| Surfactants | 0.04 | .02 |
| Oil and grease | 0.01 | .005 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

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(b) For air quality restricted operation of a spray drying tower, but only when a high rate of wet scrubbing is in operation which produces more waste water than can be recycled to process, the following values pertain:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD5 | 0.12 | 0.06 |
| COD | 0.50 | .25 |
| TSS | 0.14 | .07 |
| Surfactants | 0.20 | .10 |
| Oil and grease | 0.04 | .02 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD5 | 0.12 | 0.06 |
| COD | 0.50 | .25 |
| TSS | 0.14 | .07 |
| Surfactants | 0.20 | .10 |
| Oil and grease | 0.04 | .02 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

(c) For fast turnaround operation of a spray tower, the following values pertain: The maximum for any one day when the number of turnarounds exceeds six in any particular thirty consecutive day period shall be the sum of the appropriate value below and that from paragraph (a) or (b) of this section; and the average of daily values for thirty consecutive days shall be the value shown below multiplied by the number of turnarounds in excess of six and prorated to thirty days plus the appropriate value from paragraph (a) or (b) of this section.

| Effluent characteristic | Effluent limitations (maximum for any 1 day) |
|-------------------------|--|
| | Metric units (kilograms per 1,000 kg of anhydrous product) |
| BOD5 | 0.02 |
| COD | 0.07 |
| TSS | 0.02 |
| Surfactants | 0.02 |
| Oil and grease | 0.005 |
| pH | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) |
| BOD5 | 0.02 |
| COD | 0.07 |
| TSS | 0.02 |
| Surfactants | 0.02 |

| Effluent characteristic | Effluent limitations (maximum for any 1 day) |
|-------------------------|--|
| Oil and grease | 0.005 |
| pH | (¹) |

¹ Within the range 6.0 to 9.0.

§ 417.156 Pretreatment standards for new sources.

Any new source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403. In addition, the following pretreatment standards establishes the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged to a publicly owned treatment works by a new source subject to the provisions of this subpart.

(a) There shall be no discharge of waste water streams in which both the COD/BOD7 ratio exceeds 10.0 and the COD exceeds 2.4 kg/kg of anhydrous product.

(b) For waste streams having either a ratio of COD to BOD7 of 10.0 or less or having a COD content of 2.40 kg/kg of anhydrous product or less the pretreatment standard shall be:

(1) For normal operation of spray drying towers above, the following values pertain:

| Pollutant or pollutant property | Pretreatment standard |
|---------------------------------|-----------------------|
| BOD5 | No limitations. |
| COD | Do. |
| TSS | Do. |
| Surfactants | Do. |
| Oil and grease | Do. |
| pH | Do. |

(2) For air quality restricted operation of a spray drying tower, but only when a high rate of wet scrubbing is in operation which produces more waste water than can be recycled to process, the following values pertain:

| Pollutant or pollutant property | Pretreatment standard |
|---------------------------------|-----------------------|
| BOD5 | No limitations. |
| COD | Do. |
| TSS | Do. |
| Surfactants | Do. |
| Oil and grease | Do. |
| pH | Do. |

(3) For fast turnaround operation of a spray tower, the following values pertain: The maximum for any one day when the number of turnarounds exceeds six in any particular thirty consecutive day period shall be the sum of the appropriate value below and that from paragraph (b) (1) or (2) of this section; and the average of daily values for thirty consecutive days shall be the value shown below multiplied by the number of turnarounds in excess of six and prorated to thirty days plus the

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appropriate value from paragraph (b) (1) or (2) of this section.

| Pollutant or pollutant property | Pretreatment standard |
|---------------------------------|-----------------------|
| BOD5 | No limitations. |
| COD | Do. |
| TSS | Do. |
| Surfactants | Do. |
| Oil and grease | Do. |
| pH | Do. |

[40 FR 27454, June 30, 1975, as amended at 60 FR 33955, June 29, 1995]

Subpart P—Manufacture of Liquid Detergents Subcategory

§ 417.160 Applicability; description of the manufacture of liquid detergents subcategory.

The provisions of this subpart are applicable to discharges resulting from all operations associated with the manufacture of liquid detergents, commencing with the blending of ingredients, to and including bottling or packaging finished products.

§ 417.161 Specialized definitions.

For the purpose of this subpart:

(a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

(b) The term *anhydrous product* shall mean the theoretical product that would result if all water were removed from the actual product.

(c) The term *surfactant* shall mean those methylene blue active substances amenable to measurement by the method described in "Methods for Chemical Analysis of Water and Wastes," 1971, Environmental Protection Agency, Analytical Quality Control Laboratory, page 131.

(d) The term *normal liquid detergent operations* shall mean all such operations except those defined as fast turnaround operation of automated fill lines.

(e) The term *fast turnaround operation of automated fill lines* shall mean an operation involving more than 8 changes of formulation in a 30 consecutive day period that are of such degree and type as to require thorough purging and washing of the fill line to maintain minimal product quality.

(f) The term BOD7 shall mean the biochemical oxygen demand as determined by incubation at 20 degrees C for a period of 7 days using an acclimated seed. Agitation employing a magnetic stirrer set at 200 to 500 rpm may be used.

[39 FR 13372, Apr. 12, 1974, as amended at 40 FR 27455, June 30, 1975]

§ 417.162 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in §§ 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

(a) For normal liquid detergent operations the following values pertain:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD5 | 0.60 | 0.20 |
| COD | 1.80 | .60 |
| TSS | 0.015 | .005 |
| Surfactants | 0.39 | .13 |
| Oil and grease | 0.015 | .005 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD5 | 0.60 | 0.20 |
| COD | 1.80 | .60 |
| TSS | 0.015 | .005 |
| Surfactants | 0.39 | .13 |
| Oil and grease | 0.015 | .005 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

(b) For fast turnaround operation of automated fill lines, the following values pertain: the maximum for any one day when the number of turnarounds exceeds eight in any thirty consecutive day period shall be the sum of the appropriate values below and that from paragraph (a) of this section; and the average of daily values for thirty consecutive days shall be the values shown below multiplied by the number of turnarounds in excess of eight and prorated to thirty days plus the appropriate value from paragraph (a) of this section.

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|--|
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD5 | 0.05. | |
| COD | 0.15. | |
| TSS | 0.002. | |
| Surfactants | 0.04. | |

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| Effluent characteristic | Effluent limitations |
|--|------------------------------|
| Oil and grease | 0.002. |
| pH | Within the range 6.0 to 9.0. |
| English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.05. |
| COD | 0.15. |
| TSS | 0.002. |
| Surfactants | 0.04. |
| Oil and grease | 0.002. |
| pH | Within the range 6.0 to 9.0. |

[39 FR 13372, Apr. 12, 1974; 39 FR 17841, May 21, 1974, as amended at 60 FR 33955, June 29, 1995]

§ 417.163 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a point source subject to the provisions of this subpart after application of the best available technology economically achievable:

(a) For normal liquid detergent operations the following values pertain:

| Effluent characteristic | Effluent limitations | |
|--|-----------------------|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| Metric units (kilograms per 1,000 kg of anhydrous product) | | |
| BOD ₅ | 0.10 | 0.05 |
| COD | 0.44 | .22 |
| TSS | 0.01 | .005 |
| Surfactants | 0.10 | .05 |
| Oil and grease | 0.01 | .005 |
| pH | (¹) | (¹) |
| English units (pounds per 1,000 lb of anhydrous product) | | |
| BOD ₅ | 0.10 | 0.05 |
| COD | 0.44 | .22 |
| TSS | 0.01 | .005 |
| Surfactants | 0.10 | .005 |
| Oil and grease | 0.01 | .005 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

(b) For fast turnaround operation of automated fill lines, the following values pertain: The maximum for any one day when the number of turnarounds exceeds eight in any thirty consecutive

day period shall be the sum of the appropriate value below and that from paragraph (a) of this section; and the average of daily values for thirty consecutive days shall be the value shown below multiplied by the number of turnarounds in excess of eight and prorated to thirty days plus the appropriate value from paragraph (a) of this section.

| Effluent characteristic | Effluent limitations |
|--|------------------------------|
| Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.02. |
| COD | 0.07. |
| TSS | 0.002. |
| Surfactants | 0.02. |
| Oil and grease | 0.002. |
| pH | Within the range 6.0 to 9.0. |
| English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.02. |
| COD | 0.07. |
| TSS | 0.002. |
| Surfactants | 0.02. |
| Oil and grease | 0.002. |
| pH | Within the range 6.0 to 9.0. |

§ 417.164 [Reserved]

§ 417.165 Standards of performance for new sources.

The following standards of performance establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a new source subject to the provisions of this subpart:

(a) For normal liquid detergent operations the following values pertain:

| Effluent characteristic | Effluent limitations | |
|--|-----------------------|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| Metric units (kilograms per 1,000 kg of anhydrous product) | | |
| BOD ₅ | 0.10 | 0.05 |
| COD | 0.44 | .22 |
| TSS | 0.01 | .005 |
| Surfactants | 0.10 | .05 |
| Oil and grease | 0.01 | .005 |
| pH | (¹) | (¹) |
| English units (pounds per 1,000 lb of anhydrous product) | | |
| BOD ₅ | 0.10 | 0.05 |
| COD | 0.44 | .22 |
| TSS | 0.01 | .005 |
| Surfactants | 0.10 | .05 |

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| Effluent characteristic | Effluent limitations | |
|-------------------------|-----------------------|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| Oil and grease | 0.01 | .005 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

(b) For fast turnaround operation of automated fill lines, the following values pertain: The maximum for any one day when the number of turnarounds exceeds eight in any thirty consecutive day period shall be the sum of the appropriate value below and that from paragraph (a) of this section; and the average of daily values for thirty consecutive days shall be the value shown below multiplied by the number of turnarounds in excess of eight and prorated to thirty days plus the appropriate value from paragraph (a) of this section:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|--|
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.02. | |
| COD | 0.07. | |
| TSS | 0.002. | |
| Surfactants | 0.02. | |
| Oil and grease | 0.002. | |
| pH | Within the range 6.0 to 9.0. | |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| | | |
| BOD ₅ | 0.02. | |
| COD | 0.07. | |
| TSS | 0.002. | |
| Surfactants | 0.02. | |
| Oil and grease | 0.002. | |
| pH | Within the range 6.0 to 9.0. | |

§ 417.166 Pretreatment standards for new sources.

Any new source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403. In addition, the following pretreatment standard establishes the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged to a publicly owned treatment works by a new source subject to the provisions of this subpart.

(a) There shall be no discharge of waste water streams in which both the COD/BOD₇ ratio exceeds 10.0 and the COD exceeds 1.10 kg/kg of anhydrous product.

(b) For waste streams having either a ratio of COD to BOD₇ of 10.0 or less or having a COD content of 1.10 kg/kg of anhydrous product or less the pretreatment standard shall be:

(1) For normal liquid detergent operations the following values pertain:

| Pollutant or pollutant property | Pretreatment standard |
|---------------------------------|-----------------------|
| BOD ₅ | No limitation. |
| COD | Do. |
| TSS | Do. |
| Surfactants | Do. |
| Oil and grease | Do. |
| pH | Do. |

(2) For fast turnaround operation of automated fill lines, the following values pertain; the maximum for any one day when the number of turnarounds exceeds eight in any thirty consecutive day period shall be the sum of the appropriate value below and that from paragraph (b)(1) of this section; and the average of daily values for thirty consecutive days shall be the value shown below multiplied by the number of turnarounds in excess of eight and prorated to thirty days plus the appropriate value from paragraph (b)(1) of this section:

| Pollutant or pollutant property | Pretreatment standard |
|---------------------------------|-----------------------|
| BOD ₅ | No limitation. |
| COD | Do. |
| TSS | Do. |
| Surfactants | Do. |
| Oil and grease | Do. |
| pH | Do. |

[40 FR 27455, June 30, 1975, as amended at 60 FR 33955, June 29, 1995]

Subpart Q—Manufacture of Detergents by Dry Blending Subcategory

§ 417.170 Applicability; description of the manufacture of detergents by dry blending subcategory.

The provisions of this subpart are applicable to discharges resulting from the operations associated with the manufacture of detergents by means of the blending of dry ingredients, including, but not limited to, blending and subsequent packaging.

§ 417.171 Specialized definitions.

For the purpose of this subpart:

(a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

(b) The term *anhydrous product* shall mean the theoretical product that would result if all water were removed from the actual product.

(c) The term *surfactant* shall mean those methylene blue active substances amenable to measurement by the method described in “Methods for Chemical Analysis of Water and Wastes,” 1971,

Environmental Protection Agency, Analytical Quality Control Laboratory, page 131.

(d) The term BOD7 shall mean the biochemical oxygen demand as determined by incubation at 20 degrees C for a period of 7 days using an acclimated seed. Agitation employing a magnetic stirrer set at 200 to 500 rpm may be used.

[39 FR 13372, Apr. 12, 1974, as amended at 40 FR 27455, June 30, 1975]

§417.172 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in §§ 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD5 | 0.03 | 0.01 |
| COD | 0.21 | .07 |
| TSS | 0.03 | .01 |
| Surfactants | 0.03 | .01 |
| Oil and grease | 0.015 | .005 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD5 | 0.03 | 0.01 |
| COD | 0.21 | .07 |
| TSS | 0.03 | .01 |
| Surfactants | 0.03 | .01 |
| Oil and grease | 0.015 | .005 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

[39 FR 13372, Apr. 12, 1974, as amended at 60 FR 33955, June 29, 1995]

§417.173 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

The following limitations establish the quantity or quality of pollutants or pollutant properties,

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controlled by this section, which may be discharged by a point source subject to the provisions of this subpart after application of the best available technology economically achievable:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD5 | 0.02 | 0.01 |
| COD | 0.14 | .07 |
| TSS | 0.02 | .01 |
| Surfactants | 0.02 | .01 |
| Oil and grease | 0.01 | .01 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD5 | 0.02 | 0.01 |
| COD | 0.14 | .07 |
| TSS | 0.02 | .01 |
| Surfactants | 0.02 | .01 |
| Oil and grease | 0.01 | .01 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

§417.174 [Reserved]

§417.175 Standards of performance for new sources.

The following standards of performance establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a new source subject to the provisions of this subpart:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD5 | 0.02 | 0.01 |
| COD | 0.14 | .07 |
| TSS | 0.02 | .01 |
| Surfactants | 0.02 | .01 |
| Oil and grease | 0.01 | .05 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD5 | 0.02 | 0.01 |
| COD | 0.14 | .07 |

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| Effluent characteristic | Effluent limitations | |
|-------------------------|-----------------------|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| TSS | 0.02 | .01 |
| Surfactants | 0.02 | .01 |
| Oil and grease | 0.01 | .005 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

§ 417.176 Pretreatment standards for new sources.

Any new source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403. In addition, the following pretreatment standards establishes the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged to a publicly owned treatment works by a new source subject to the provisions of this subpart.

(a) There shall be no discharge of waste water streams in which both the COD/BOD7 ratio exceeds 10.0 and the COD exceeds 0.26 kg/kg of anhydrous product.

(b) For waste streams having either a ratio of COD to BOD7 of 10.0 or less or a COD content of 0.26 kg/kg of anhydrous product or less the pretreatment standard shall be:

| Pollutant or pollutant property | Pretreatment standard |
|---------------------------------|-----------------------|
| BOD5 | No limitation. |
| COD | Do. |
| TSS | Do. |
| Surfactants | Do. |
| Oil and grease | Do. |
| pH | Do. |

[39 FR 13372, Apr. 12, 1974, as amended at 60 FR 33955, June 29, 1995]

Subpart R—Manufacture of Drum Dried Detergents Subcategory

§ 417.180 Applicability; description of the manufacture of drum dried detergents subcategory.

The provisions of this subpart are applicable to discharges resulting from the operations associated with the manufacture of detergents by drum drying, including, but not limited to, drying of formulations on heated drums or rollers, conversion of dried detergents to powders or flakes, and packaging of finished products.

§ 417.181 Specialized definitions.

For the purpose of this subpart:

(a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

(b) The term *anhydrous product* shall mean the theoretical product that would result if all water were removed from the actual product.

(c) The term *surfactant* shall mean those methylene blue active substances amenable to measurement by the method described in "Methods for Chemical Analysis of Water and Wastes," 1971, Environmental Protection Agency, Analytical Quality Control Laboratory, page 131.

(d) The term BOD7 shall mean the biochemical oxygen demand as determined by incubation at 20 degrees C for a period of 7 days using an acclimated seed. Agitation employing a magnetic stirrer set at 200 to 500 r.p.m. may be used.

[39 FR 13372, Apr. 12, 1974, as amended at 40 FR 27455, June 30, 1975]

§ 417.182 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in §§ 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD5 | 0.03 | 0.01 |
| COD | 0.15 | .05 |
| TSS | 0.03 | .01 |
| Surfactants | 0.03 | .01 |
| Oil and grease | 0.03 | .01 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD5 | 0.03 | 0.01 |
| COD | 0.15 | .05 |
| TSS | 0.03 | .01 |
| Surfactants | 0.03 | .01 |
| Oil and grease | 0.03 | .01 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

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[39 FR 13372, Apr. 12, 1974, as amended at 60 FR 33956, June 29, 1995]

§ 417.183 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a point source subject to the provisions of this subpart after application of the best available technology economically achievable:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD5 | 0.02 | 0.01 |
| COD | 0.10 | .05 |
| TSS | 0.02 | .01 |
| Surfactants | 0.02 | .01 |
| Oil and grease | 0.02 | .01 |
| pH | (¹) | (¹) |
| Effluent characteristic | English units (pounds per 1,000 lb of anhydrous product) | |
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | | |
| BOD5 | 0.02 | 0.01 |
| COD | 0.10 | .05 |
| TSS | 0.02 | .01 |
| Surfactants | 0.02 | .01 |
| Oil and grease | 0.02 | .01 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

§ 417.184 [Reserved]

§ 417.185 Standards of performance for new sources.

The following standards of performance establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a new source subject to the provisions of this subpart:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD5 | 0.02 | 0.01 |
| COD | 0.10 | .05 |
| TSS | 0.02 | .01 |
| Surfactants | 0.02 | .01 |
| Oil and grease | 0.02 | .01 |
| pH | (¹) | (¹) |
| Effluent characteristic | English units (pounds per 1,000 lb of anhydrous product) | |
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | | |
| BOD5 | 0.02 | 0.01 |
| COD | 0.10 | .05 |
| TSS | 0.02 | .01 |
| Surfactants | 0.02 | .01 |
| Oil and grease | 0.02 | .01 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

§ 417.186 Pretreatment standards for new sources.

Any new source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403. In addition, the following pretreatment standards establishes the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged to a publicly owned treatment works by a new source subject to the provisions of this subpart.

(a) There shall be no discharge of waste water streams in which both the COD/BOD7 ratio exceeds 10.0 and the COD exceeds 0.20 kg/kg of anhydrous product.

(b) For waste streams having either a ratio of COD to BOD7 of 10.0 or less or a COD content of 0.20 kg/kg of anhydrous product or less the pretreatment standard shall be:

| Pollutant or pollutant property | Pretreatment standard |
|---------------------------------|-----------------------|
| BOD5 | No limitation. |
| COD | Do. |
| TSS | Do. |
| Surfactants | Do. |
| Oil and grease | Do. |
| pH | Do. |

[40 FR 27455, June 30, 1975, as amended at 60 FR 33956, June 29, 1995]

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Subpart S—Manufacture of Detergent Bars and Cakes Subcategory

§ 417.190 Applicability; description of the manufacture of detergent bars and cakes subcategory.

The provisions of this subpart are applicable to discharges resulting from operations associated with the manufacture of detergent bars and cakes, including, but not limited to, drying, milling, plodding, stamping and packaging.

§ 417.191 Specialized definitions.

For the purpose of this subpart:

(a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

(b) The term *anhydrous product* shall mean the theoretical product that would result if all water were removed from the actual product.

(c) The term *surfactant* shall mean those methylene blue active substances amenable to measurement by the method described in "Methods for Chemical Analysis of Water and Wastes," 1971, Environmental Protection Agency, Analytical Quality Control Laboratory, page 131.

§ 417.192 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in §§ 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 2.10 | 0.70 |
| COD | 9.90 | 3.30 |
| TSS | 0.60 | .20 |
| Surfactants | 1.50 | .50 |
| Oil and grease | 0.06 | .50 |
| pH | (¹) | (¹) |

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 2.10 | 0.70 |
| COD | 9.90 | 3.30 |
| TSS | 0.60 | .20 |
| Surfactants | 1.50 | .50 |
| Oil and grease | 0.06 | .50 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

[39 FR 13372, Apr. 12, 1974, as amended at 60 FR 33956, June 29, 1995]

§ 417.193 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a point source subject to the provisions of this subpart after application of the best available technology economically achievable:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.60 | 0.30 |
| COD | 2.70 | 1.35 |
| TSS | 0.20 | .10 |
| Surfactants | 0.40 | .10 |
| Oil and grease | 0.04 | .02 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.60 | 0.30 |
| COD | 2.70 | 1.35 |
| TSS | 0.20 | .10 |
| Surfactants | 0.40 | .10 |
| Oil and grease | 0.04 | .02 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

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§ 417.194 Pretreatment standards for existing sources.

Any existing source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403. In addition, the following pretreatment standard establishes the quantity or quality of pollutants or pollutant properties controlled by this section which may be discharged to a publicly owned treatment works by a point source subject to the provisions of this subpart.

| Pollutant or pollutant property | Pretreatment standard |
|---------------------------------|-----------------------|
| pH | No limitation. |
| BOD ₅ | Do. |
| TSS | Do. |
| Oil and grease | Do. |
| COD | Do. |
| Surfactants | Do. |

[40 FR 6443, Feb. 11, 1975, as amended at 60 FR 33956, June 29, 1995]

§ 417.195 Standards of performance for new sources.

The following standards of performance establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a new source subject to the provisions of this subpart:

| Effluent characteristic | Effluent limitations | |
|-------------------------|--|---|
| | Maximum for any 1 day | Average of daily values for 30 consecutive days shall not exceed— |
| | Metric units (kilograms per 1,000 kg of anhydrous product) | |
| BOD ₅ | 0.60 | 0.30 |
| COD | 2.70 | 1.35 |
| TSS | 0.20 | .10 |
| Surfactants | 0.40 | .20 |
| Oil and grease | 0.04 | .02 |
| pH | (¹) | (¹) |
| | English units (pounds per 1,000 lb of anhydrous product) | |
| BOD ₅ | 0.60 | 0.30 |
| COD | 2.70 | 1.35 |
| TSS | 0.20 | .10 |
| Surfactants | 0.40 | .20 |
| Oil and grease | 0.04 | .02 |
| pH | (¹) | (¹) |

¹ Within the range 6.0 to 9.0.

§ 417.196 Pretreatment standards for new sources.

Any new source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403.

[60 FR 33956, June 29, 1995]